Attorney Docket No.: 56162.000419

CLAIMS

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- A method for optimizing cell available (CLAV) status polling of a
 plurality of physical interface addresses, the method comprising the steps of:
 polling a plurality of PHY addresses to determine CLAV status;
 receiving the CLAV status for each one of the plurality of PHY addresses;
 determining whether the CLAV status could change for each PHY address; and
 re-polling each PHY address with a CLAV status that could change.
- 2. The method of claim 1, wherein the CLAV status that could change comprises an inactive CLAV status.
- The method of claim 1, wherein the CLAV status that could change comprises a completed cell transfer.
 - 4. The method of claim 2, wherein the step of re-polling further comprises the step of:

re-polling addresses with an inactive CLAV status.

The method of claim 3, wherein the step of re-polling further comprises the step of:

re-polling addresses having completed a cell transfer.

- 6. The method of claim 1, wherein re-polling of PHY addresses having an active CLAV status are avoided.
- 7. The method of claim 1, wherein the CLAV status comprises ability to receive a cell.
 - 8. The method of claim 7, wherein a PHY address is re-polled within at least four bytes of a previous cell transfer.
 - 9. The method of claim 1, wherein the CLAV status comprises the ability to transmit a cell.
 - 10. The method of claim 1, wherein each PHY address with an inactive CLAV status is re-polled until the PHY address indicates an active CLAV status.
 - 11. The method of claim 1, wherein the physical interface is a UTOPIA.
- 12. A system for optimizing cell available (CLAV) status polling of a plurality of physical interface addresses, the system comprising:

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a polling module for polling a plurality of PHY addresses to determine CLAV status;

a status module for receiving the CLAV status for each one of the plurality of PHY addresses;

5 a determining module for determining whether the CLAV status could change for each PHY address; and

a re-polling module for re-polling each PHY address with a CLAV status that could change.

13. The system of claim 12, wherein the CLAV status that could change comprises an inactive CLAV status.

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- 14. The system of claim 12, wherein the CLAV status that could change comprises a completed cell transfer.
- 15. The system of claim 13, wherein the re-polling module further comprises re-polling addresses with an inactive CLAV status.
- 15 16. The system of claim 14, wherein the re-polling module further comprises re-polling addresses having completed a cell transfer.
 - 17. The system of claim 12, wherein re-polling of PHY addresses having an active CLAV status are avoided.
- 18. The system of claim 12, wherein the CLAV status comprises ability to 20 receive a cell.
 - 19. The system of claim 18, wherein a PHY address is re-polled within at least four bytes of a previous cell transfer.
 - 20. The system of claim 12, wherein the CLAV status comprises the ability to transmit a cell.
- 25 21. The system of claim 12, wherein each PHY address with an inactive CLAV status is re-polled until the PHY address indicates an active CLAV status.
 - 22. The system of claim 12, wherein the physical interface is a UTOPIA.
 - 23. A computer readable medium, the computer readable medium comprising a set of instructions for optimizing cell available (CLAV) status polling of a

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plurality of physical interface addresses and being adapted to manipulate a processor to:

poll a plurality of PHY addresses to determine CLAV status; and receive the CLAV status for each one of the plurality of PHY addresses; determining whether the CLAV status could change for each PHY address; and poll each PHY address with a CLAV status that could change.

- 24. The computer readable medium as in claim 23, wherein the CLAV status that could change comprises an inactive CLAV status.
- 25. The computer readable medium as in claim 23, wherein the CLAV status that could change comprises a completed cell transfer.
 - 26. The computer readable medium as in claim 24, wherein the instructions are further adapted to re-poll addresses with an inactive CLAV status.
 - 27. The computer readable medium as in claim 25, wherein the instructions are further adapted to poll addresses having completed a cell transfer.
- 15 28. The computer readable medium as in claim 23, wherein the instructions are further adapted to avoid re-polling PHY addresses having an active CLAV status.
 - 29. The computer readable medium as in claim 23, wherein the CLAV status comprises ability to receive a cell.
- 30. The computer readable medium as in claim 23, wherein the instructions are further adapted to re-poll a PHY address within at least four bytes of a previous cell transfer.
 - 31. The computer readable medium as in claim 23, wherein the CLAV status comprises the ability to transmit a cell.
- 32. The computer readable medium as in claim 23, wherein the instructions are further adapted to re-poll each PHY address with an inactive CLAV status until the PHY address indicates an active CLAV status.
 - 33. The computer readable medium as in claim 23, wherein the physical interface is a UTOPIA.

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